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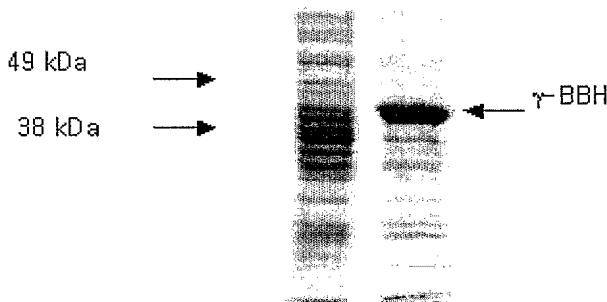
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[Continued on next page]

(54) Title: GAMMA-BUTYROBETAINE HYDROXYLASE ORIGINATED FROM NEUROSPORA CRASSA



Lane 1 : Protein molecular size marker,  
Lane 2 : E.coli BL21 w/o g-BBH gene,  
Lane 3 : E.coli BL21 w/ g-BBH gene and induced by 1mM IPTG

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(57) Abstract: Disclosed is a polynucleotide encoding  $\gamma$ -butyrobetaine hydroxylase ( $\gamma$ -BBH) originating from Neurospora crassa. Also disclosed are a recombinant vector comprising the polynucleotide, a transformant transformed with the recombinant vector,  $\gamma$ -BBH encoded by the polynucleotide, and a method of preparing L-carnitine, which comprises hydroxylating  $\gamma$ -butyrobetaine using  $\gamma$ -BBH encoded by the polynucleotide.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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